

# PHOTOSYNTHESIS

- What do plants absorb from the soil?
  - Sugar
  - Water
  - Dirt
- What do plants collect from the air?
  - Carbon monoxide
  - Water
  - Carbon dioxide
- Which of the following do plants gain from sunlight?
  - Carbon dioxide
  - Energy
  - Sugar
- What is the pigment that traps energy from sunlight called?
  - Xylem
  - Veins
  - Chlorophyll
- What is the main source of nutrition for plants?
  - Glucose
  - Fructose
  - Glucose
- Which molecule can split into oxygen and hydrogen atoms?
  - Water
  - Hydrogen
  - Oxygen
- Which of the following is NOT needed for photosynthesis?
  - Sunlight
  - Water
  - Dirt
- What makes our air breathable?
  - Car exhaust
  - Potassium
  - Oxygen released from plants
- Another name for glucose is:
  - Sugar
  - Gelatin
  - Milk
- What plant structures contain chlorophyll?
  - Xylems
  - Chloroplasts
  - Chloroseptics

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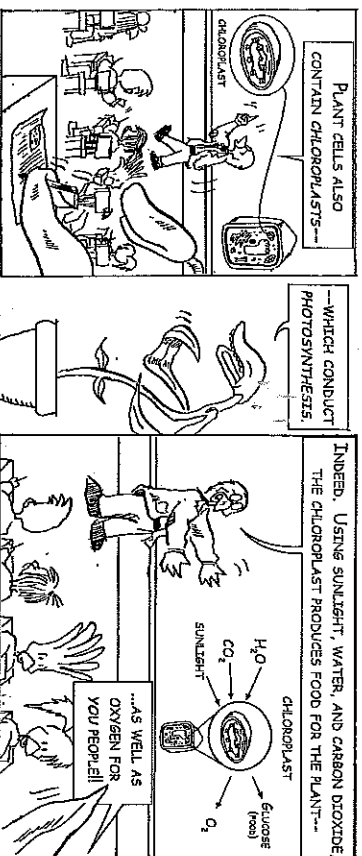
Dr. Birdley  
INVESTIGATES

CELL WALL & CHLOROPLAST

NAME: \_\_\_\_\_  
CLASS: \_\_\_\_\_ DATE: \_\_\_\_\_

## PANEL REVIEW: PHOTOSYNTHESIS

**Directions:** Review the panels in the space below and answer the questions that follow.

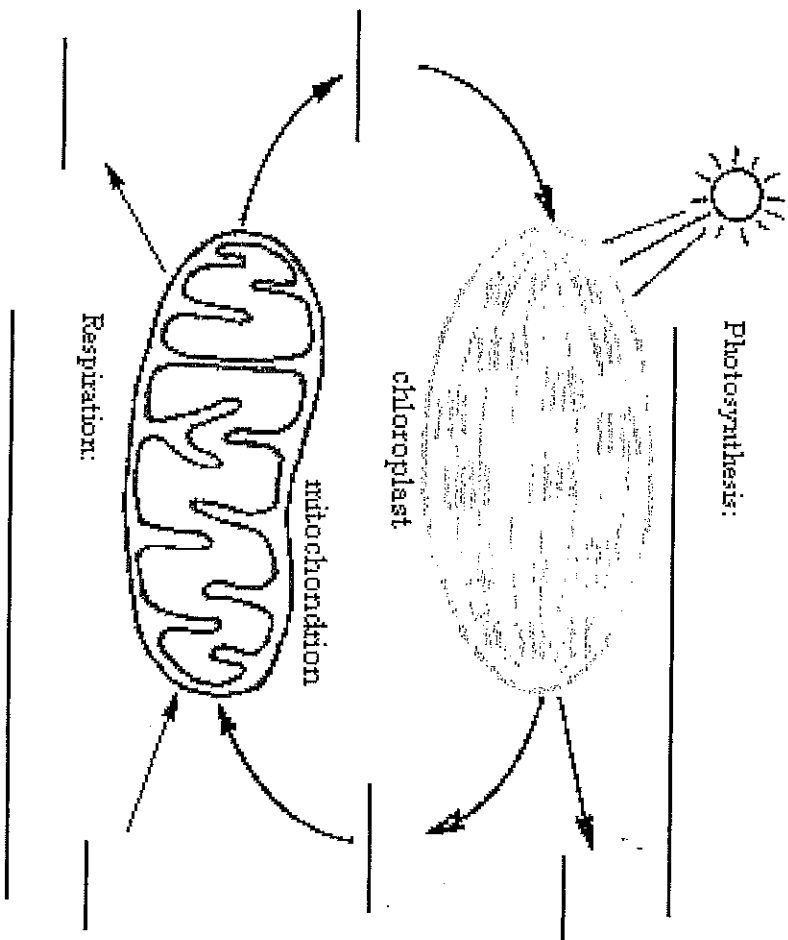


- What is the chloroplast and where is it located?
- According to the diagram on the right, which molecule ends up storing the energy that the plant absorbs from the sunlight?
- Would a plant survive if it could no longer manufacture chloroplasts? Explain.
- Do you think the chloroplast, if taken out of the cell, could be considered a living organism? Why or why not?

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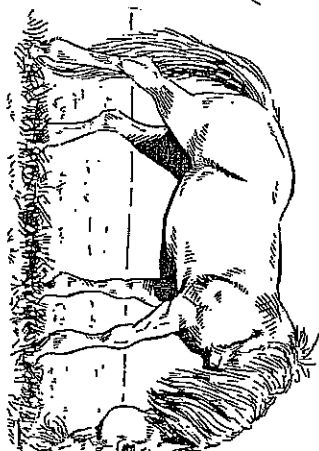
## How Plants and Animals Use Food

Photosynthesis:



A. The paragraphs below describe *respiration*, the process by which plants and animals release energy from glucose. Complete the description using the words from the box. Each word will be used *only once*.

ATP	mitochondria
carbon dioxide	oxygen
energy	photosynthesis
glucose	water
heat	



Plants make their own food through (1) \_\_\_\_\_, and animals get food they eat plants or other animals. Plants and animals use the (2) \_\_\_\_\_ from to carry out life processes. In a plant or animal, each cell needs energy, which it gets through *respiration*.

Respiration occurs within cellular structures called (3) \_\_\_\_\_. During respiration, a cell uses (4) \_\_\_\_\_ to release energy from (5) \_\_\_\_\_. Two by-products of this process are (6) \_\_\_\_\_ and \_\_\_\_\_.

Some of the energy produced during respiration gets stored in molecules called (7) \_\_\_\_\_. However, some of the energy is lost as (8) \_\_\_\_\_, which keeps an organism warm.

B. Complete the following to show what happens within a cell during respiration.

oxygen + glucose → produce

